

Note!

Please note that there can be small differences between your product and the images in these instructions.

Note!

Please note that during storage and transport, especially at high ambient temperature, some of the oil and grease used for assembly may leak and stain the packaging. This will not cause damage to the product, wipe off the excessive oil or grease with a cloth.

Kit Contents

Description	Part No	Pcs
Front fork kit	FGR 261 FGR 262	1
Spring, front fork	04744-05	2
Spring, front fork	04744-95	2
Screw	01046-38	8
Fender bracket	21665-21	2
Fender bracket	21665-22	2
Preload tube	01460-41	2

Note!

Before you install this product, check the kit contents. If anything is missing, please contact an Öhlins dealer.

Warning!

Before you install this product, read the Öhlins Owner's manual. This product is an important part of the vehicle and the vehicle stability.

Front Fork Superbike

FGR 261, FGR 262

Mounting Instructions/Spare Parts List



SAFETY PRECAUTIONS

Warning!

The shock absorber/front fork/steering damper is an important part of the vehicle and will affect the stability.

Warning!

After installing the Öhlins product, take a test ride at low speed to make sure your vehicle has maintained stability.

Warning!

Some of Öhlins products contain pressurized nitrogen gas (N₂). Do not open, service or modify pressurized products without proper education (approved Öhlins dealer/distributor) and proper tools.

Note!

Read and ensure you understand the information in this manual and other technical documents provided by Öhlins, before you use the product.

Note!

Öhlins Racing AB can not be held responsible for any damage to the shock absorber/front fork/steering damper, vehicle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not obeyed.

Warning!

If the suspension makes an abnormal noise, or the function is irregular, or if you notice any leakage from the product, stop the vehicle immediately and return the product to an Öhlins Service Centre.

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SAFETY SYMBOLS

In this manual, mounting instructions and other technical documents, important information concerning safety is distinguished by the following symbols:



The Safety Alert Symbol means: Warning! Your safety is involved.

Warning!

The Warning Symbol means: Failure to follow warning instructions can result in severe or fatal injury to anyone working with, inspecting or using the shock absorber, or to bystanders.

Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the shock absorber.

Note!

The Note Symbol indicates information that is important regarding procedures.

Warning!

The product warranty shall only apply if the product has been operated and maintained in accordance with recommendations in this manual. If you have any questions regarding usage, service, inspection and/or maintenance contact Öhlins.

Note!

When working with the Öhlins product, read the Vehicle Service Manual.

Warning!

This product was developed and designed exclusively for a specific vehicle model and shall only be installed on the intended vehicle model in its original condition as delivered from the vehicle manufacturer.

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FGR 261, FGR 262 TECHNICAL INFORMATION

FGR 261, FGR 262

Front fork length/stroke 745/120 mm**

Free spring length 260 mm

** Optional length 755 with stroke 130 mm. See Spare Part List and Work Shop Manual sections for detailed info.

Adjustment Range

Compression ~30 clicks

Rebound ~30 clicks

Spring preload 0-18 mm
(0-18 turns)

The adjustment range from closed valve (clockwise) to maximum open valve (counter clockwise): approx. 30 clicks

Spring rate

10.0 N/mm (mark -10) STD 04744-10

Optional springs

9.0 N/mm (mark -90) 04744-90 or 08790-90

9.5 N/mm (mark -95) 04744-95* or 08790-95

10.5 N/mm (mark -05) 04744-05* or 08790-05

11.0 N/mm (mark -11) 04744-11 or 08790-11

* *supplied*

08790-xx springs are packed in pairs

Oil capacity

See specification card. Use Öhlins Front Fork fluid 01309 only.

Inspection intervals

Normal use: Once a year or every 5 000 km

Racing use: Every 10 hours

Service intervals

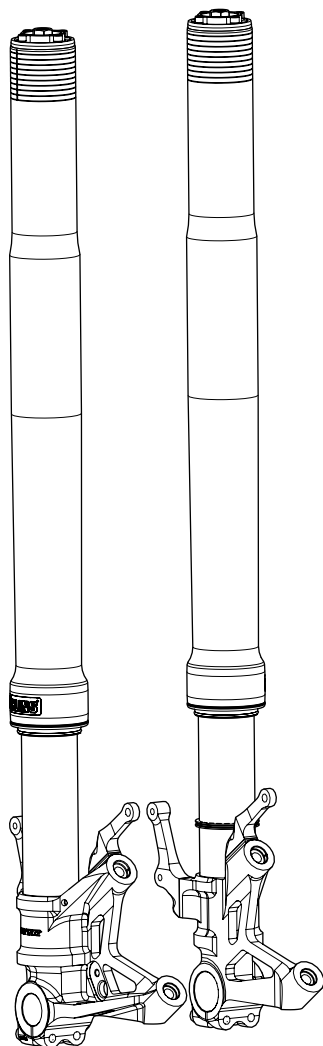
Normal use: Every third year or every 30 000 km

Racing use: Once a year or every 20 hours

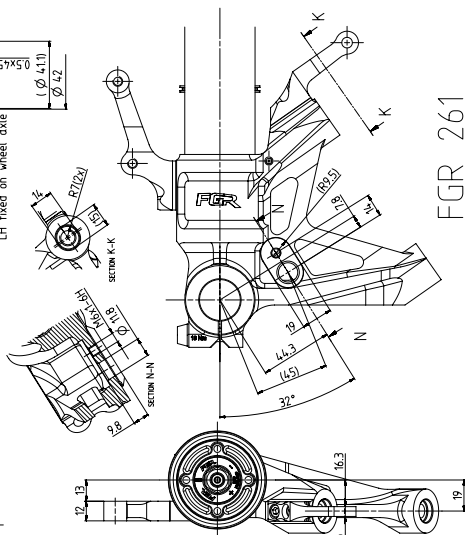
Service at an authorized Öhlins service center.

Disposal

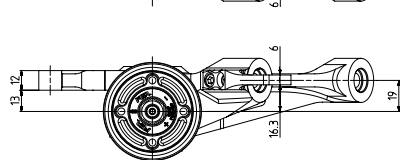
Discarded products should be handed over to an authorized Öhlins Service Centre for proper disposal.



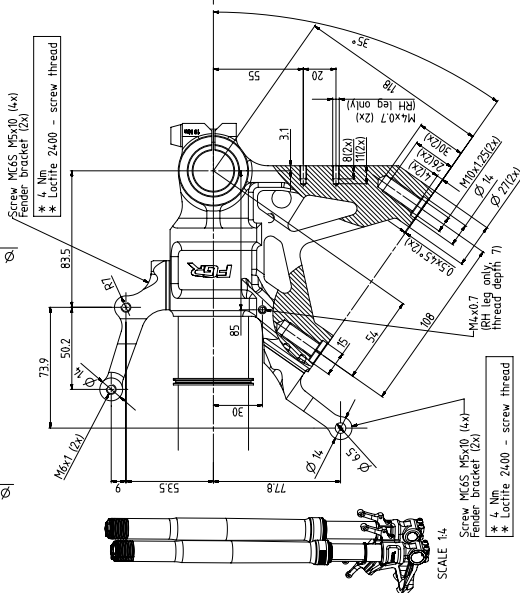
Length 745 with stroke 120 (Optional length 755 with stroke 130)



FGR	261
FGR	262



* Carried out by the end user at installation



MOUNTING INSTRUCTIONS

👁 Note!

The front fork is just one part of your motorcycle. To make it work properly, set up your motorcycle according to your vehicle service manual.

⚠ Warning!

We strongly recommend to let an authorized Öhlins dealer install this product.

⚠ Warning!

If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.

👁 Note!

When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.

👁 Note!

Before you install this product clean the vehicle.

1 Mounting instruction

1

Put the motorcycle on a work stand so that the front wheel barely touches the ground.

2

Remove the front fender, brake calipers, speed sensor and the front wheel. Refer to the vehicle service manual for correct procedure.

3

Measure the distance from the top of the outer fork leg to the top of the upper triple clamp. Note this distance.

👁 Note!

It is very important that the Öhlins front fork is installed at the exact same position as the OEM front fork.

4

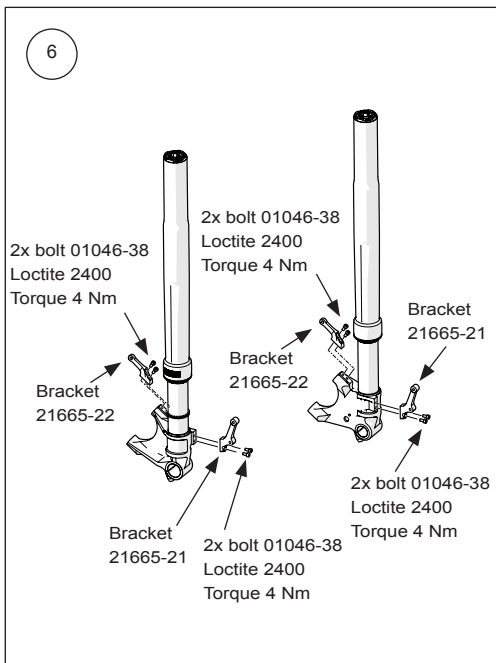
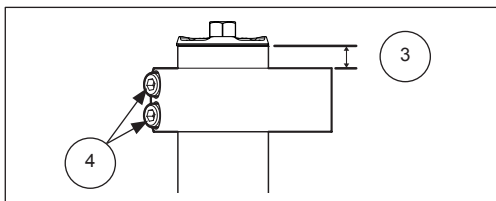
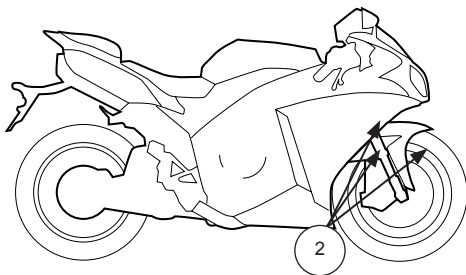
Loosen the bolts to loosen the upper and the lower triple clamps.

5

Remove the fork legs from the motorcycle.

6

Apply Loctite 2400 or similar to the bolts. Install the supplied fender brackets to the fork legs, see figure 6. Tighten the screws to 4 Nm.



MOUNTING INSTRUCTIONS

7

Install the fork legs in the triple clamps at the same position as measured in step 3. The splines facing out from the motorcycle (see figure 7). Turn the handle bars fully from side to side to make sure that nothing restricts the movement, and that the throttle cable and the wire harness run in smooth bends.

8

Tighten:

Upper triple clamp: 20 Nm

Lower triple clamp: 10 Nm

9

Install the front fender, front wheel and the brake calipers. Do not tighten yet.

11

⚠ Warning!

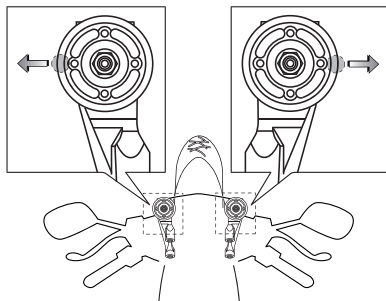
Ensure that the speed sensor cable does not touch the wheel at full lock turns and when the suspension is fully compressed or extended.

Install the speed sensor bracket. Cable routing according to the figure. Torque and thread locking according to vehicle service manual.

12

Put the vehicle on the ground, apply the front brake and compress the front fork distinctly 3-4 times. This will position the front fork legs parallel.

7



13

Tighten the front axle, brake calipers and the front fender.

Front axle pinch bolts torque: 19 Nm

14

Close the compression and rebound adjusters.

15

Compress the front fork as much as possible several times to bleed out the air. Ensure that there is damping on the full stroke.

16

Set the compression and rebound adjusters, see setup data on the next page.

⚠ Caution!

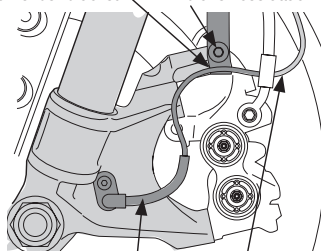
Make sure that you tighten all screws to the correct torque and that nothing fouls or restricts movement of the front fork when the suspension is fully compressed or extended.

11

Yamaha YZF-R1, Yamaha YZF-R6

The tab of the bracket below the rear fender bracket.

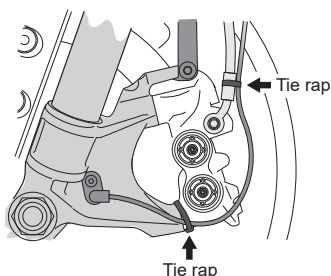
Speed sensor bracket on the outer side of the brake hose attachment.



Hose down towards the speed sensor.

Cable behind the brake hose

Yamaha YZF-R1M

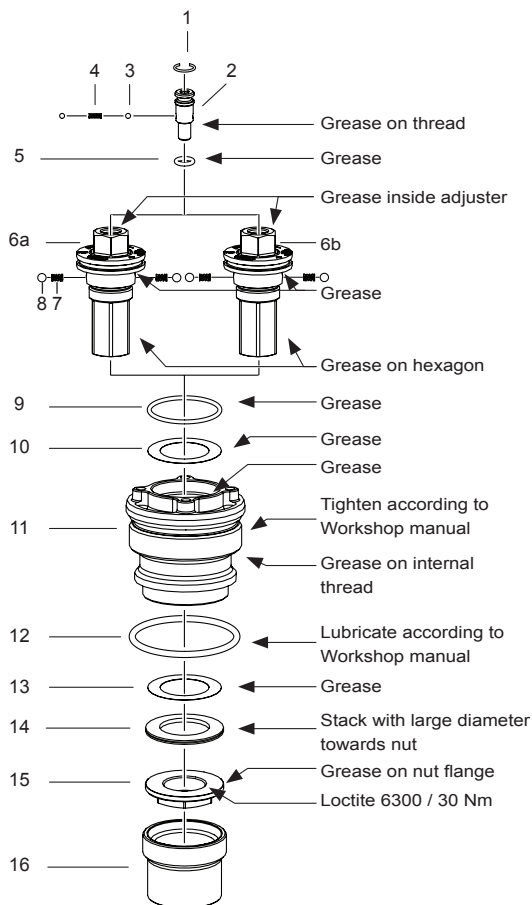


Tie rap

FGR 261, FGR 262 SPARE PARTS LIST

The number of components is intended for one right hand side fork leg and one left hand side fork leg.

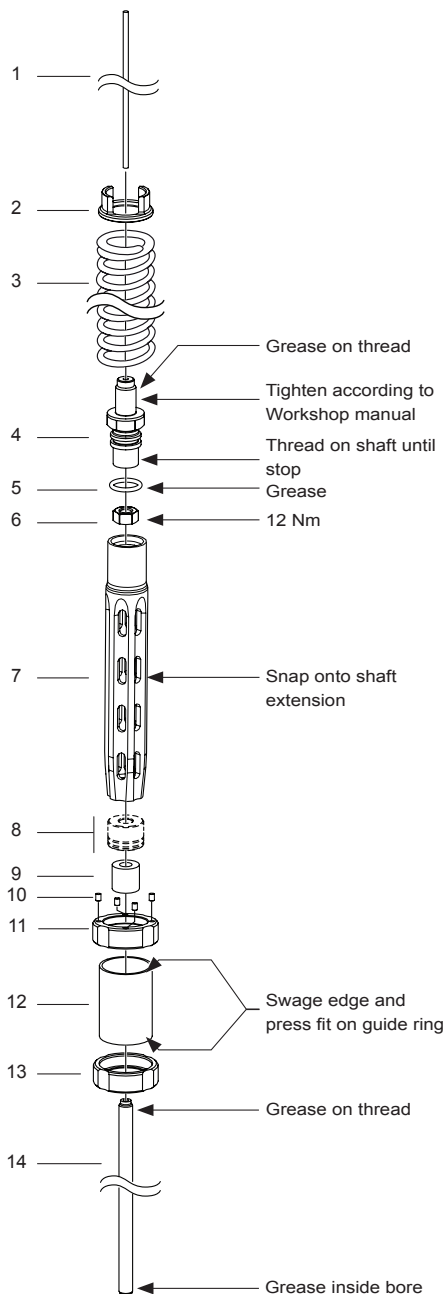
Figure 1 - Top cap



Pos	Part No	Pcs	Description	Notes
1-1	01473-01	2	Circclip	
1-2	21819-01	2	Adjustment screw	
1-3	00884-04	4	Ball	
1-4	01474-01	2	Spring	
1-5	00577-01	2	O-ring	
1-6a	21955-01	1	Adjuster	Compression
1-6b	21955-02	1	Adjuster	Rebound
1-7	03083-02	4	Spring	
1-8	00884-06	4	Ball	
1-9	00638-86	2	O-ring	
1-10	03309-04	2	Shim	
1-11	21976-15	2	Adjustment housing	
1-12	00338-02	2	O-ring	
1-13	03309-01	2	Shim	
1-14	03317-01	8	Spring washer	
1-15	03313-01	2	Nut	
1-16	03315-01	2	Preload socket	

FGR 261, FGR 262 SPARE PARTS LIST

Figure 2 - Shaft assembly

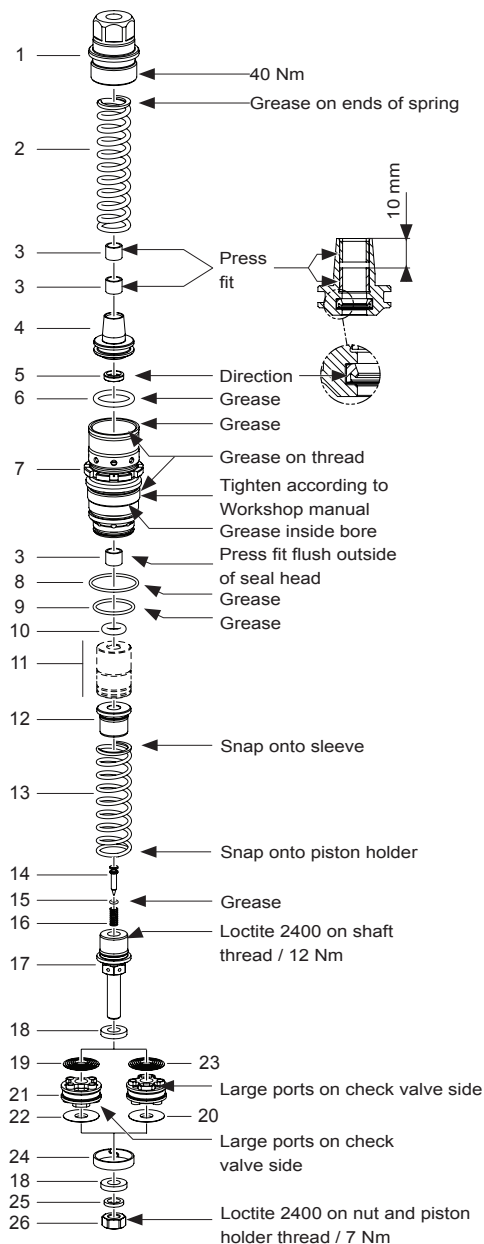


Pos	Part No	Pcs	Description	Notes
2 - 1	15412-25	2	Adjustment rod	
2 - 2	03316-02	2	Spring support	
2 - 3	04744-95	2	Main spring	9.5 N/mm
2 - 3	04744-10	2	Main spring	10.0 N/mm *
2 - 3	04744-05	2	Main spring	10.5 N/mm
2 - 4	01901-09	2	Shaft extension	
2 - 5	00338-76	2	O-ring	
2 - 6	00437-09	2	Nut	
2 - 7	21975-03	2	Guide sleeve	
2 - 8	01582-21	4	Spacer 2 mm	
2 - 9	01580-04	2	Bump rubber	
2 - 10	21244-02	8	Magnet	
2 - 11	21978-04	2	Guide ring	
2 - 12	01460-59	2	Preload tube 74 mm	Standard stroke 120 mm*
2 - 12	01460-41	2	Preload tube 83 mm	Optional stroke 130 mm
2 - 13	01438-04	2	Guide ring	
2-14	21812-19	2	Shaft	

* Installed at delivery

FGR 261, FGR 262 SPARE PARTS LIST

Figure 3 - Seal head and piston assembly

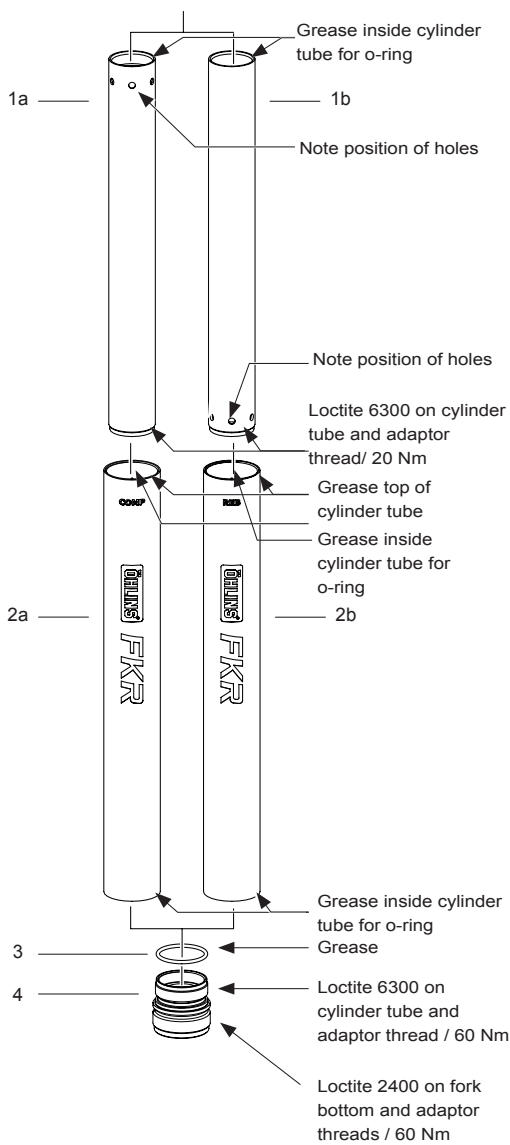


Pos	Part No	Pcs	Description	Notes
3-1	21922-01	2	Cap seal head	
3-2	21927-01	2	Spring	
3-3	01056-09	6	Bushing	
3-4	21921-01	2	Piston dividing	
3-5	15428-01	2	Seal	
3-6	00338-25	2	O-ring	
3-7	21920-01	2	Seal head	
3-8	00338-72	2	O-ring	
3-9	00338-27	2	O-ring	
3-10	00638-81	2	O-ring	
3-11	01582-23	4	Spacer 10 mm	Standard stroke 120 mm Spacers total 20 mm
3-11	01582-23	2	Spacer 10 mm	Optional stroke 130 mm Spacers total 10 mm
3-12	01653-09	2	Sleeve	
3-13	21733-01	2	Spring	
3-14	21813-15	2	Needle	
3-15	00338-56	2	O-ring	
3-16	04727-09	2	Spring	
3-17	01654-15	2	Piston holder	
3-18	21926-01	4	Washer	
3-19	See spec. card	1	Shim stack	Compression
3-20	See spec. card	1	Shim stack	Rebound
3-21	21923-01	2	Piston	
3-22	See spec. card	1	Check valve shim stack	Compression
3-23	See spec. card	1	Check valve shim stack	Rebound
3-24	01447-02	2	Piston ring	
3-25	01674-01	2	Washer	
3-26	01657-01	2	Nut	

FGR 261, FGR 262 SPARE PARTS LIST

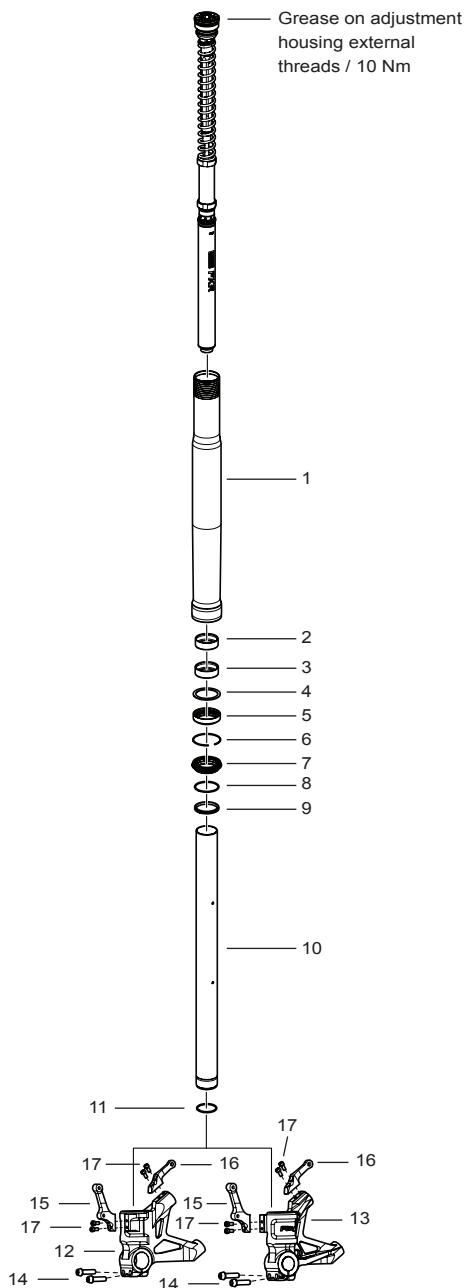
Figure 4 - Cylinder tube assembly

Pos	Part No	Pcs	Description	Notes
4-1a	21929-01	1	Cylinder tube	Compression
4-1b	21929-02	1	Cylinder tube	Rebound
4-2a	21930-01	1	Cylinder tube	Compression
4-2b	21930-02	1	Cylinder tube	Rebound
4-3	00576-07	2	O-ring	
4-4	21924-06	2	Adaptor	



FGR 261, FGR 262 SPARE PARTS LIST

Figure 5 - External components



Pos	Part No	Pcs	Description	Notes
5-1	01900-17	2	Outer tube	
5-2	01683-04	2	Bushing, upper	
5-3	01684-04	2	Bushing, Lower	
5-4	04758-01	2	Washer	
5-5	04720-02	2	Seal	
5-6	04759-01	2	Circlip	
5-7	04721-03	2	Scraper	
5-8	00338-54	1	O-ring	Right
5-9	01565-04	1	Stroke Indicator	Right
5-10	21634-12	2	Fork leg inner	
5-11	00338-63	2	O-ring	
5-12	21664-52	1	Fork bottom right	FGR 261
	21664-53	1	Fork bottom left	FGR 261
5-13	21664-54	1	Fork bottom right	FGR 262
	21664-55	1	Fork bottom left	FGR 262
5-14	01240-09	4	Screw	
5-15	21665-21	2	Fender bracket	Front
5-16	21665-22	2	Fender bracket	Rear
5-17	01046-38	8	Screw M5x10	Front and rear fender bracket

FGR 261, FGR 262 SETUP DATA

SETUP DATA

Recommended setup

Compression adjustment	14	clicks
Rebound adjustment	14	clicks
Suspension fluid level	190	mm
Minimum suspension fluid level	250	mm
Suspension fluid part number	01309-xx	
Front fork leg position	Standard	

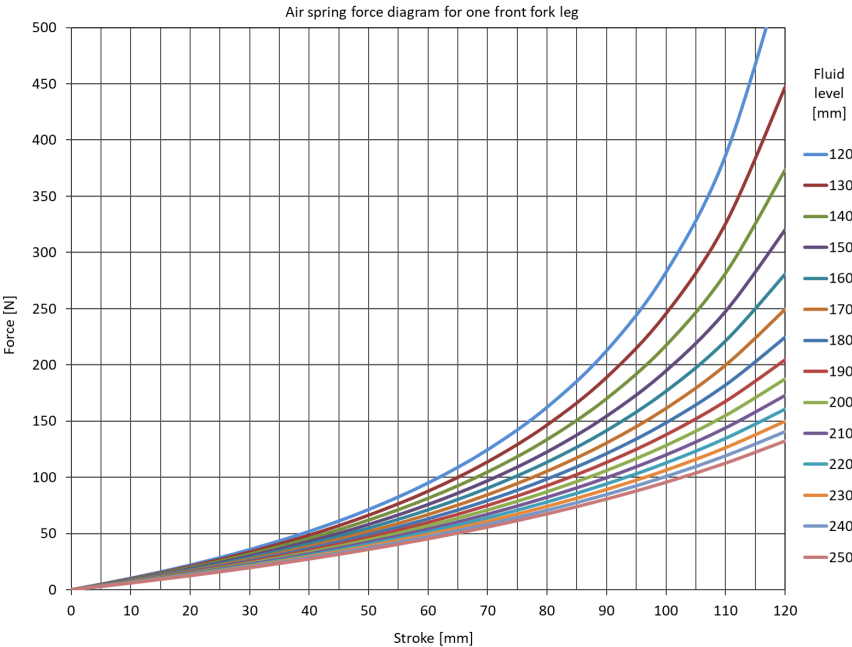
MAIN SPRING GUIDE

Make sure you choose the correct main spring for your rider weight, driving style and preferences. Below you find a general recommendation of main spring rate for your weight. Contact an authorized Öhlins service center for advice.

Rider weight [kg]	50	60	70	80	90	100	110
Spring rate [N/mm]	9	9	9.5	10	10.5	10.5	11
Preload [mm]	4	6	6	5	5	6	6
Part number (pair)	08790-90	08790-90	08790-95	08790-10	08790-05	08790-05	08790-11
Part number (single)	04744-90	04744-90	04744-95	04744-10	04744-05	04744-05	04744-11

👁 Note!

Only 08790-xx main springs are packed in pairs.



Öhlins products are subject to continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of printing, minor updates may occur.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

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